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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/676,519
	Filing Date	Sep 30, 2003
	First Named Inventor	Ma
	Group Art Unit	2621
	Examiner Name	
Total Number of Pages in This Submission	Attorney Docket Number	MS1-1640US

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Firm or Individual name	Brian G. Hart; 44,421
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.10/676,519
Filing DateSep 30, 2003
Confirmation No.....8301
Inventorship.....Ma et al.
Applicant Microsoft Corporation
Group Art Unit2621
Examiner
Attorney's Docket No. MS1-1640US
Title: A Contrast-Based Image Attention Analysis Framework

INFORMATION DISCLOSURE STATEMENT

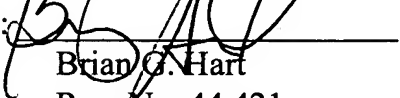
References -- See Attached Form PTO-1449

REMARKS

The citations listed, copies attached, are submitted in compliance with the duty of disclosure defined in 37 CFR §1.56. The Examiner is requested to make these citations of official record in this application.

Respectfully Submitted,

Date: 7/8/04

By: 
Brian G. Hart
Reg. No. 44,421



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/676,519
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				Examiner Name	
Sheet	1	of	6	Attorney Docket Number	MS1-1640US

U.S. PATENT DOCUMENTS						
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		Number	Kind Code ² (If known)			
		2003/0152363		Jeannin et al.	08/14/2003	
		5,442,633		Perkins et al.	08/15/1995	
		5,530,963		Moore et al.	06/25/1996	
		5,625,877		Dunn et al.	04/29/1997	
		5,642,294		Taniguchi et al.	06/24/1997	
		5,659,685		Williams et al.	08/19/1997	
		5,745,190		Ioka	04/28/1998	
		5,751,378		Chen et al.	05/12/1998	
		5,774,593		Zick et al.	06/30/1998	
		5,801,765		Gotoh et al.	09/01/1998	
		5,835,163		Liou et al.	11/10/1998	
		5,900,919		Chen et al.	05/04/1999	
		5,911,008		Niikura et al.	06/08/1999	
		5,920,360		Coleman Jr.	07/06/1999	
		5,959,697		Coleman Jr.	09/28/1999	
		5,990,980		Golin	11/23/1999	
		5,995,095		Ratakonda	11/30/1999	
		6,462,754		Chakraborty et al.	10/08/2002	
		2003/0237053		Chen et al.		

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
			EP 1168840		Tokyo Shibaura Electric Co	01/02/2002		
			EP 1213915		Sony United Kingdom Limited	06/12/2002		
			GB 2356080		Sony United Kingdom Limited	05/09/2001		
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Sheet	2	of	6	Attorney Docket Number	MS1-1640US

NON PATENT LITERATURE DOCUMENTS			
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		US Patent Application Serial Number 10/371,125 filed February 20, 2003; Inventors: Wei-Ying Ma et al., Entitled "Systems and Methods for Enhanced Image Adaptation" (Attorney Docket MS1-1406US)	
		US Patent Application Serial No 10/286,053 filed November 1, 2002; Inventors; Yu-Fei Ma et al., Entitled "Systems and Methods for Generating a Comprehensive User Attention Model" (Attorney Docket No. MS1-1278US).	
		US Patent Application Serial No. 10/286348 filed November 1, 2002; Inventors Xian-Sheng Hua et al. Entitled "Systems and Methods for Automatically Editing a Video" (Attorney Docket No. MS1-1277US).	
		US Patent Application Serial No. 10/285,933 filed November 1, 2002; Inventors Yu-Fei Ma et al.: Entitled "Systems and Methods for Generating a Motion Attention Mode" (Attorney Docket NO. MS1-1344US).	
		http://www.fatalfx.com/nomad/ "NOMAD (No More Advertising)" February 17, 2003; 4 pages.	
		CHERRY, STEVEN M.; "Pesky Home Networks Trouble Cable Behemoths" IEEE Spectrum, April 2002, pages 60-61	
		HARGROVE, THOMAS; "Logo Detection in Digital Video" Math 100, March 6, 200, http://toonarchive.com/logo-detection/ ; 9 pages.	
		HELD, GIBERT; "Focus on Agere System's Orinoco PC Card" International Journal of Network Management, May/June 2002, pages 187-193	
		JHA, UMA S.; "Wireless Landscape-Need for Seamless Connectivity" Wireless Personal Communications 2002 pages 275-283	
		LIENHART, R. et al.; "On the Detection and Recognition of Television Commercials" University of Mannheim, 17 pages.	
		LU, LIE et al.; "A Robust Audio Classification and Segmentation Method" Microsoft Research, China, 9 pages.	

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		Group Art Unit	2621		
		Examiner Name			
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		AHMAD, SUBUTAI; "VISIT: A Neural Model of Covert Visual Attention" Advances in Neural Information Processing Systems, v. 4, 1991, pgs 420-427	
		BALUJA et al.; "Expectation-Based Selective Attention for Visual Monitoring and Control of a Robot Vehicle" Robotics and Autonomous System, v.22 no.3-4, December 1997, pages 329-344	
		DENG et al.; "Peer Group Filtering and Perceptual Color Image Quantization" Proceedings of IEEE International Symposium on Circuits and Systems, Vol. 4, 1999, pages 21-24	
		JING et al.; "An Effective Region-Based Image Retrieval Framework" From ACM Multimedia, 2002, 28 pages	
		LI et al.; "Statistical Learning of Multi-View Face Detection" Proceedings of ECCV, 2002, 25 pages	
		MILANESE R. et al.; "Attentive Mechanisms for Dynamic and Static Scene Analysis" Optical Engineering, v34 no8, August 1995, pages 2428-2434	
		LU, LIE et al.; "Content Analysis for Audio Classification and Segmentation" IEEE Transactions on Speech and Audio Processing, Vol. 10 No. 7, October 2002, pages 504-516.	
		LU, LIE et al.; "Content-Based Audio Segmentation Using Support Vector Machines" IEEE, 2001, pages 956-959.	
		SADLIER, DAVID A.; "Automatic TV Advertisement Detection from MPEG Bitstream" Centre for Digital Video Processing/Research Institute for Network & Communication Eng., Dublin City University, 12 pages.	
		SANCHEZ, JUAN MARIA; "AudiCom: A Video Analysis System for Auditing Commercial Broadcasts" Computer Vision Center Departament d'Informatica Universitat Autònoma de Barcelona, 5 pages.	
		ZABIH, RAMIN; "A Feature-Based Algorithm for Detecting and Classifying Scene Breaks" Computer Science Department, Cornell University, 16 pages.	

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		O'TOOLE, COLIN et al.; "Evaluation of Automatic Shot Boundary Detection on a Large Video Test Suite" School of Computer Applications & School of Electronic Engineering, Dublin City University, Glasnevin Dublin Ireland Challenge of Image Retrieval, Newcastle, 1999, pp.1-12.	
		ITTI et al.; "Computational Modelling of Visual Attention" Nature Reviews/Neuroscience, Vol. 2, March 2001, pp. 1-11.	
		ITTI et al.; "A Comparison of Feature Combination Strategies for Saliceny-Based Visual Attention Systesm" Proc. of SPIE Human Vision and Electronic Imaging IV (HVEI'99), San Jose CA, Vol. 3644, Jan 1999., pp. 473-82	
		ITTI et al.; "A Model of Saliency-based Visual Attention for Rapid Scene Analysis" "IEEE Trans. on Pattern Analysis and Machine Intelligence, 1998, 5 pages.	
		LEE, KEANSUB et al.; "Perception-Based Image Transcoding for Universal Multimedia Access" School of Electrical Engineering Korea University, Seoul Korea ,2001, IEEE, pp. 475-478.	
		T. LIN et al.; "Video Scene Extraction by Force Competition" IEEE Intl. Conference on Multimedia and Expo (ICME 001), Waseda University, Tokyo Japan, August 2001, 4 pages.	
		NIEBUR, E. et al.; "Computational Architectures for Attention" The Attentive Brain, Chapter 9, 1998, pages 163-186	
		SAHOO P.K. et al.; "Threshold Selection Using a Minimal Histogram Entropy Difference" Optical Engineering, v36 no7, July 1997, pages 1976-1981	
		TSOTSOS J. K. et al.; "Modeling Visual Attention Via Selective Tuning" Artificial Intelligence v78 1995 pgs 507-545	
		WOLFE J. M. et al.; "Deploying Visual Attention: The Guided Search Model" AI and the Eye, Chapter 4, 1990, pages 79-103	
		ZADEH L. A.; "Probability Measures of Fuzzy Events" Journal of Mathematical Analysis and Applications, 23, 1968, pgs 421-427	

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		CHEN et al.; "A Visual Attention Model for Adapting Images on Small Displays" ACM Multimedia Systems Journal, 2003,	
		CHEN, JINLIN et al.; "Function-based Object Model Towards Website Adaptation" Proc. of the 10th Int. WWW Conf., 2001, pp. 1-21.	
		CHRISTOPOULOS, CHARILAOS et al.; "The JPEG2000 Still Image Coding System: An Overview" IEEE Transactions on Consumer Electronics, Vol. 46 No. 4, November 2000, pp. 1103-1127	
		GAMAZ et al.; "Robust Scene-Change Detection in MPEG Compressed Domain" Elec & Comp. Eng., 1998, pp. 95-99	
		GU et al.; "Dissolve Detection in MPEG Compressed Video" IEEE, 1997, pp. 1692-1696	
		HENG et al.; "Post Shot Boundary Detection Technique: Flashlight Scene Determination" University of Western Australia, 1999, pp. 447-450	
		LELESCU et al.; "Real-time Scene Change Detection on Compressed Multimedia Bitstream Based on Statistical Sequential Analysis" IEEE, 2000, pp. 1141-1144	
		MA et al.; "A User Attention Model for Video Summarization" Proceedings of ICIP, 2002	
		O'TOOLE; "An MPEG-1 Shot Boundary Detector Using XIL Colour Histograms" Dublin City University, 1998, pp. 1-7	
		YEO et al.; "Rapid Scene Analysis on Compressed Video" IEEE, 1995, pp. 533-544	
		YUSOFF et al.; "Video Shot Cut Detection Using Adaptive Thresholding" University of Surrey, 2000, pp. 1-10	

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		M.A. SMITH et al.; "Video Skimming and Characterization Through the Combination of Image and Language Understanding Techniques" Proc. of Computer Vision and Pattern Recognition, 1997, IEEE, pp 775-781	
		DIVAKARAN et al; "Video Summarization Using Descriptors of Motion Activity: A Motion Activity Based Approach to Key-Frame Extraction from Video Shots" Journal of Electronic Imaging, October 2001, vol.10 n 4, pp 909-916	
		YU-FEI MA & HONG JIANG ZHANG; "A Model of Motion Attention for Video Skimming" Microsoft Research, Asia, 4 pages.	
		YU-FEI MA & HONG-JIANG ZHANG; "A New Perceived Motion Based Shot Content Representation" Microsoft Research, China, 4 pages.	

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